Applicants: Gloria C. Li, et al.

Serial No.: 09/750,410

Filed : December 28, 2000

Page 2

Listing of claims:

1. (Currently Amended) Α method for increasing the cell susceptibility of a to a DNA-damaging agent, comprising introducing into the cell in vitro an antisense oligonucleotide nucleic acid that specifically hybridizes to a nucleic acid encoding a human DNA-dependent protein kinase subunit so as to prevent expression of the human DNA-dependent protein kinase subunit wherein antisense oligonucleotide nucleic acid is in an amount sufficient to increase the sensitivity of the cell to heat, chemical, or radiation-induced DNA damage, (b) antisense oligonucleotide is enclosed in a liposome prior introduction into the cell and (c) the oligonucleotide nucleic acid has the sequence of a human Ku70 cDNA in the antisense orientation or a human Ku80 cDNA in the antisense orientation.

2-14. (Canceled)

- 15. (Currently Amended) An antisense oligonucleotide nucleic acid which has the sequence of a human Ku70 cDNA in the antisense orientation and which specifically hybridizes to a nucleic acid encoding a human DNA-dependent protein kinase subunit, wherein the human DNA-dependent protein kinase subunit is Ku70, so as to prevent expression of the human DNA-dependent protein kinase subunit.
- 16. (Currently Amended) The antisense oligonucleotide <u>nucleic</u> acid of claim 15 linked to a ribozyme.

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Serial No.: 09/750,410

Filed: December 28, 2000

Page 3

17. (Canceled)

- 18. (Currently Amended) The antisense oligonucleotide <u>nucleic</u> acid of claim 15 operably linked to a regulatory element.
- 19. (Currently Amended) The antisense oligonucleotide nucleic acid of claim 18, wherein the regulatory element is an inducible promoter.
- 20. (Currently Amended) The antisense oligonucleotide nucleic acid of claim 18, wherein the regulatory element is a heat shock promoter.
- 21. (Currently Amended) An expression vector adapted for the expression of the antisense oligonucleotide <u>nucleic acid</u> of claim 15.
- 22. (Currently Amended) An expression vector adapted for the expression of the antisense oligonucleotide <u>nucleic acid</u> of claim 16.

23-26. (Canceled)